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SEQUENCE LISTING

<110> Ferreira, Paulo
Hemerly, Adriana

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<141> 2005-03-01

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 Asp Leu Lys Pro Pro Ala Ala Asp Val Ala Ile Ile Gln Ser Ala Met
 580 585 590

265833US0XPCT.ST25

Glu Lys Val His Leu Pro Asp Glu Leu Met Asp Asp Asp Asp Asp
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Asp Glu Ile
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<210> 7
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 <212> DNA
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 ccccatcacc aactgcagca cagacttcta gtatcatgcc accaccactc tttaggaatg 900
 tccatgctta nattcaaatt caaatacctg ggggttgagg ggaatggtac aggttattcg 960
 tcagggaat tgcgagtaaa ctcgctccaca ccatcaaat ggtgttaacc accatacgtt 1020
 ccgtgcaagt taggaaagga aaaccacggg ctacagaaaa ttttgatgaa ggaagtagat 1080
 atgaagtc tcatgaaatg tggacagaca atatatcagg aacttcatct tctgtaagta 1140

265833US0XPCT.ST25

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cagaagctgc agtagtttag gactctgtac aagttgagcg ttggcaaaat gacgcctgta 2460
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<223> xaa is any amino acid

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Pro Ser Glu Thr Asn Val Gln Leu Leu Ala Thr Cys Tyr Leu His Asn
 35 40 45

Asn Gln Pro Tyr Ala Ala Tyr His Ile Leu Lys Gly Lys Lys Leu Pro
 50 55 60

Glu Ser Arg Tyr Leu Phe Ala Thr Ser Cys Phe Arg Met Asn Leu Leu
 65 70 75 80

Arg Glu Ala Glu Glu Thr Leu Cys Pro Val Asn Glu Pro Asn Met Glu
 85 90 95

Val Pro Ser Gly Ala Thr Gly His Tyr Leu Leu Gly Val Ile Tyr Arg
 100 105 110

Cys Thr Gly Arg Ile Ser Ala Ala Ala Glu Gln Phe Thr Gln Ala Leu
 115 120 125

Thr Leu Asp Pro Leu Leu Trp Ala Ala Tyr Glu Glu Leu Cys Ile Leu
 130 135 140

Gly Ile Ala Glu Asp Thr Asp Glu Cys Phe Ser Glu Ser Thr Ala Leu
 145 150 155 160

Arg Leu Gln Gln Glu His Thr Ser Thr Ala Thr Leu Val Lys Ser Asn
 165 170 175

Phe Ala Asn Glu Asn Arg Val Leu Ser Ser Arg Val Ser Ala Asn Leu
 180 185 190

Gly Asp Ile Ser Pro Lys Gln Ile Lys Gln Leu His Ala Asn Asn Ile
 195 200 205

Ala Glu Val Ser Gly Tyr Pro His Val Arg Pro Thr Ala Leu His Val
 210 215 220

Gln Asn Ser Ser Thr Ser Asn Val Ala Gln Phe Asp Thr Pro Ser Pro
 225 230 235 240

Thr Ala Ala Gln Thr Ser Ser Ile Met Pro Pro Pro Leu Phe Arg Asn
 245 250 255

265833US0XPCT.ST25

Val His Ala Xaa Ile Gln Ile Gln Ile Pro Gly Val Trp Arg Glu Trp
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 Tyr Arg Leu Phe Val Arg Glu Ile Ala Ser Lys Leu Val His Thr Ile
 275 280 285
 Lys Met Val Leu Thr Thr Ile Arg Ser Val Gln Val Arg Lys Gly Lys
 290 295 300
 Pro Arg Ala Thr Glu Asn Phe Asp Glu Gly Ser Arg Tyr Glu Val Ile
 305 310 315 320
 Asp Glu Met Trp Thr Asp Asn Ile Ser Gly Thr Ser Ser Ser Val Ser
 325 330 335
 Thr Ala Asp Gly Arg Ser Phe Glu Gln Asp Lys Ala Glu Arg Ile Leu
 340 345 350
 Leu Gln Asp Ser Lys Leu Ala Leu Gly Ile Arg Glu Ile Leu Gly Leu
 355 360 365
 Val Arg Thr Leu Gly Glu Gly Cys Arg Leu Ser Cys Leu Phe Lys Cys
 370 375 380
 His Glu Ala Leu Glu Val Tyr Arg Arg Leu Pro Glu Thr His Xaa Ser
 385 390 395 400
 Thr Gly Trp Ser Ile Cys Gln Val Gly Lys Ala Tyr Phe Glu Leu Val
 405 410 415
 Asp Tyr Leu Glu Ala Asp Arg Tyr Phe Glu Leu Ala His Arg Leu Ser
 420 425 430
 Pro Cys Thr Leu Asp Gly Met Asp Ile Tyr Ser Thr Val Leu Tyr His
 435 440 445
 Leu Asn Glu Glu Met Arg Leu Ser Tyr Leu Ala Gln Glu Leu Ile Ser
 450 455 460
 Ile Asp Arg Leu Ser Pro Gln Ala Trp Cys Ala Val Gly Asn Cys Phe
 465 470 475 480
 Ala Leu Arg Lys Asp His Glu Thr Ala Leu Lys Asn Phe Gln Arg Ser
 485 490 495
 Val Gln Leu Asp Ser Arg Phe Ala Tyr Ala His Thr Leu Cys Gly His
 500 505 510
 Glu Tyr Ser Ala Leu Glu Asp Tyr Glu Asn Ser Ile Lys Phe Tyr Arg
 515 520 525

265833US0XPCT.ST25

Cys Ala Leu Gln Val Asp Glu Arg His Tyr Asn Ala Trp Tyr Gly Leu
530 535 540

Gly Val Val Tyr Leu Arg Gln Glu Lys Xaa Glu Phe Ala Glu His His
545 550 555 560

Phe Arg Arg Ala Phe Gln Ile Asn Pro Arg Ser Ser Val Leu Met Cys
565 570 575

Tyr Leu Gly Met Ala Leu His Ser Leu Lys Arg Lys Glu Glu Ala Leu
580 585 590

Glu Met Met Glu Lys Ala Ile Ala Ala Asp Lys Lys Asn Pro Leu Pro
595 600 605

Lys Tyr Gln Lys Ala Leu Ile Leu Leu Gly Leu Gln Lys Tyr Gln Glu
610 615 620

Ala Leu Asp Glu Leu Glu Arg Leu Lys Glu Ile Ala Pro His Glu Ser
625 630 635 640

Ser Met Tyr Ala Leu Met Gly Lys Ile Tyr Lys Gln Leu Asn Ile Leu
645 650 655

Asp Lys Ala Val Phe Cys Phe Gly Ile Ala Leu Asp Leu Lys Pro Pro
660 665 670

Ala Ala Asp Leu Ala Ile Ile Lys Ser Ala Met Glu Lys Val His Leu
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Pro Asp Glu Leu Met Glu Asp Asp Leu
690 695

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<212> DNA
<213> Zea mays

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ctacaatgct tggtatggcc ttgggggtggt gtatcttcgc caggaaaagt ttgagtttgc 180
tgagcatcat ttcagaaggg catttcagat aaatcctcgc tcttctgttc tcatgtgcta 240
tcttgggatg gccttgcatc ctcttaagag gaatgaagag gcaactggaaa tgatggagaa 300
agctatagca gctgataaga agaatccact gcccaagtat cagaagtcct taattcttct 360
aggactaatg aagtatgaag aagctctgga tgagttggag cggctaaagg agattgcacc 420
tcatgagagt agtatgtatg cactgatggg aaagatttac aagcaactca atattcttga 480
caaagctggtt ttctgcttcg gcattgcctt ggatttgaaa ccacctgctg ctgatcttgc 540

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586

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<400> 10

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Tyr Ser Ala Leu Glu Asp Tyr Glu Asn Ser Ile Lys Phe Tyr Arg Cys
 20 25 30

Ala Leu Gln Val Asp Glu Arg His Tyr Asn Ala Trp Tyr Gly Leu Gly
 35 40 45

Val Val Tyr Leu Arg Gln Glu Lys Phe Glu Phe Ala Glu His His Phe
 50 55 60

Arg Arg Ala Phe Gln Ile Asn Pro Arg Ser Ser Val Leu Met Cys Tyr
 65 70 75 80

Leu Gly Met Ala Leu His Ser Leu Lys Arg Asn Glu Glu Ala Leu Glu
 85 90 95

Met Met Glu Lys Ala Ile Ala Ala Asp Lys Lys Asn Pro Leu Pro Lys
 100 105 110

Tyr Gln Lys Ser Leu Ile Leu Leu Gly Leu Met Lys Tyr Glu Glu Ala
 115 120 125

Leu Asp Glu Leu Glu Arg Leu Lys Glu Ile Ala Pro His Glu Ser Ser
 130 135 140

Met Tyr Ala Leu Met Gly Lys Ile Tyr Lys Gln Leu Asn Ile Leu Asp
 145 150 155 160

Lys Ala Val Phe Cys Phe Gly Ile Ala Leu Asp Leu Lys Pro Pro Ala
 165 170 175

Ala Asp Leu Ala Ile Ile Lys Ser Ala Met Glu Lys Val Pro Arg Pro
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 <213> Sorghum bicolor

<400> 11

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tcccgggtact tgtttgctac atcatgtttt cgaatgaacc tcttgctga agcagaagaa 120

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 caagcgttga ctctagatcc tcttttatgg gcggcatatg aggaattgtg tatattaggt 300
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 <213> Sorghum bicolor

<400> 12

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Lys Met Pro Glu Ser Arg Tyr Leu Phe Ala Thr Ser Cys Phe Arg Met
 20 25 30

Asn Leu Leu Arg Glu Ala Glu Glu Thr Leu Cys Pro Val Asn Glu Pro
 35 40 45

Asn Met Glu Val Pro Ser Gly Ala Thr Gly His Tyr Leu Leu Gly Val
 50 55 60

Ile Tyr Arg Cys Thr Gly Arg Ile Ser Ala Ala Ala Glu Gln Phe Thr
 65 70 75 80

Gln Ala Leu Thr Leu Asp Pro Leu Leu Trp Ala Ala Tyr Glu Glu Leu
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Cys Ile Leu Gly Ile Ala Glu Asp Thr Asp Glu Cys Phe Ser Glu Ser
 100 105 110

Thr Ala

<210> 13
 <211> 715
 <212> DNA
 <213> Triticum aestivum

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 ttaccttcg ccaggaaaag tttgagtttg ctgagcatca ttttagaagg gcatttcaga 180
 taaatccccg ctcttctgtt cttatgtgct atcttgggat ggccttacat gctctaaaga 240

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 agaaatggac atttattcag atctatgagt ttctgcttgt gcttccgagt catggcctga 660
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 <212> PRT
 <213> Triticum aestivum

<400> 14

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Gln Val Asp Glu Arg His Tyr Asn Ala Trp Tyr Gly Leu Gly Val Val
20 25 30

Tyr Leu Arg Gln Glu Lys Phe Glu Phe Ala Glu His His Phe Arg Arg
35 40 45

Ala Phe Gln Ile Asn Pro Arg Ser Ser Val Leu Met Cys Tyr Leu Gly
50 55 60

Met Ala Leu His Ala Leu Lys Arg Asp Glu Asp Ala Leu Glu Met Met
65 70 75 80

Glu Lys Ala Ile Phe Ser Asp Lys Lys Asn Pro Leu Pro Lys Tyr Gln
85 90 95

Lys Ala Leu Ile Leu Val Gly Leu Gln Lys Tyr Gln Glu Ala Leu Asp
100 105 110

Glu Leu Glu Arg Leu Arg Glu Ile Ala Pro His Glu Ser Ser Met Tyr
115 120 125

Ala Leu Met Gly Lys Ile Tyr Lys Gln Leu Asn Ile Leu Asp Lys Ala
130 135 140

Val Phe Cys Phe Gly Val Ala Leu Asp Leu Lys Pro Pro Ala Ala Asp
145 150 155 160

Leu Ala Ile Ile Lys Ser Ala Met Glu Lys Val His Leu Pro Asp Glu
165 170 175

265833US0XPCT.ST25

Leu Met Glu Asp Asp
180

